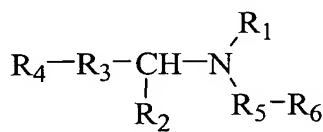


**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions of the claims and listing of the claims in the application:

1. **(Currently Amended)** A method for treating a subject for glaucoma, comprising:  
administering a therapeutically effective amount of a deprenyl compound to a subject,  
wherein said deprenyl compound is represented by the structure



in which

R<sub>1</sub> is hydrogen, alkyl, alkenyl, alkynyl, aralkyl, alkylcarbonyl, arylcarbonyl, alkoxy carbonyl, or aryloxy carbonyl;

R<sub>2</sub> is hydrogen or alkyl;

R<sub>3</sub> is a single bond, alkylene, or  $-(\text{CH}_2)_n-\text{X}-(\text{CH}_2)_m-$ ;

in which X is O, S, or N-methyl; m is 1 or 2; and n is 0, 1, or 2;

R<sub>4</sub> is alkyl, alkenyl, alkynyl, heterocyclyl, aryl or aralkyl; and

R<sub>5</sub> is alkylene, alkenylene, alkynylene and alkoxylenylene; and

R<sub>6</sub> is C<sub>3</sub>-C<sub>6</sub> cycloalkyl or



R<sub>2</sub> and R<sub>4</sub>-R<sub>3</sub> are joined to form, together with the methine to which they are attached, a cyclic or polycyclic group;

and pharmaceutically acceptable salts thereof;

such that the subject is treated for glaucoma.

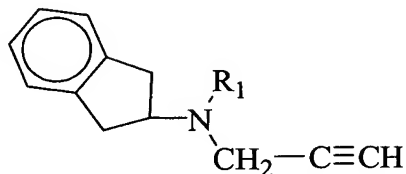
2. **(Cancelled)**

3. **(Currently Amended)** The method of claim 2 1, wherein R<sub>1</sub> is a group that can be removed *in vivo*.

4. **(Currently Amended)** The method of claim 2 1, wherein R<sub>1</sub> is hydrogen.
5. **(Currently Amended)** The method of claim 2 1, wherein R<sub>1</sub> is alkyl.
6. **(Original)** The method of claim 5, wherein R<sub>1</sub> is methyl.
7. **(Currently Amended)** The method of claim 2 1, wherein R<sub>2</sub> is methyl.
8. **(Currently Amended)** The method of claim 2 1, wherein R<sub>3</sub> is methylene.
9. **(Currently Amended)** The method of claim 2 1, wherein R<sub>4</sub> is aryl.
10. **(Currently Amended)** The method of claim 2 1, wherein R<sub>4</sub> is phenyl.
11. **(Currently Amended)** The method of claim 2 1, wherein R<sub>5</sub> is methylene.
12. **(Currently Amended)** The method of claim 2 1, wherein R<sub>6</sub> is

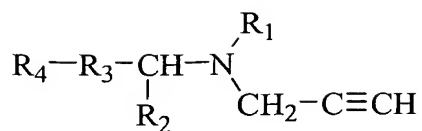


13. **(Currently Amended)** The method of claim 2 1, wherein the deprenyl compound has the structure



wherein R<sub>1</sub> is hydrogen, alkyl, alkenyl, alkynyl, aralkyl, alkylcarbonyl, arylcarbonyl, alkoxycarbonyl, or aryloxycarbonyl.

14. **(Currently Amended)** The method of claim 2 1, wherein the deprenyl compound is represented by the structure:



in which

$\text{R}_1$  is hydrogen, alkyl, alkenyl, alkynyl, aralkyl, alkylcarbonyl, arylcarbonyl, alkoxy carbonyl, or aryloxy carbonyl;

$\text{R}_2$  is hydrogen or alkyl;

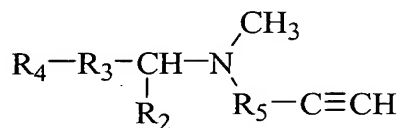
$\text{R}_3$  is a bond or methylene; and

$\text{R}_4$  is aryl or aralkyl; or

$\text{R}_2$  and  $\text{R}_4-\text{R}_3$  are joined to form, together with the methine to which they are attached, a cyclic or polycyclic group;

and pharmaceutically acceptable salts thereof.

15. **(Currently Amended)** The method of claim 2 1, wherein the deprenyl compound is represented by the structure:



in which

$\text{R}_2$  is hydrogen or alkyl;

$\text{R}_3$  is a bond or methylene; and

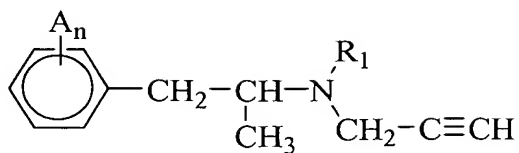
$\text{R}_4$  is aryl or aralkyl; or

$\text{R}_2$  and  $\text{R}_4-\text{R}_3$  are joined to form, together with the methine to which they are attached, a cyclic or polycyclic group; and

$\text{R}_5$  is alkylene, alkenylene, alkynylene and alkoxylenylene;

and pharmaceutically acceptable salts thereof.

16. **(Currently Amended)** The method of claim 2 1, wherein the deprenyl compound is represented by the structure:



in which

$R_1$  is hydrogen, alkyl, alkenyl, alkynyl, aralkyl, alkylcarbonyl, arylcarbonyl, alkoxycarbonyl, or aryloxycarbonyl;

$A$  is a substituent independently selected for each occurrence from the group consisting of halogen, hydroxyl, alkyl, alkoxy, cyano, nitro, amino, carboxyl,  $-CF_3$ , or azido;

$n$  is 0 or an integer from 1 to 5;

and pharmaceutically acceptable salts thereof.

17. **(Original)** The method of claim 1, wherein the deprenyl compound is (-)-deprenyl.
18. **(Original)** The method of claim 1, wherein the deprenyl compound is (-)-pargyline.
19. **(Original)** The method of claim 1, wherein the deprenyl compound is (-)-desmethyldeprenyl.
20. **(Cancelled)**